

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference ADS / PB60555	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/GB2004/004492	International filing date (day/month/year) 22/10/2004	(Earliest) Priority Date (day/month/year) 24/10/2003
Applicant GLAXO GROUP LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 8 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. Certain claims were found unsearchable (See Box II).

3. Unity of invention is lacking (see Box III).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

**DRY POWDER COMPOSITIONS FOR INHALATION THERAPY COMPRISING CALCIUM STEARATE,
MEDICAL DEVICES THEREFOR**

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. _____

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/004492

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7	A61K9/00	A61K31/56	A61K31/57	A61K31/18	A61K31/569
	A61M15/00	A61P11/00	A61P11/06		

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61K A61M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, BIOSIS, EMBASE, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/185764 A1 (STANIFORTH JOHN NICHOLAS ET AL) 2 October 2003 (2003-10-02) claim 1 paragraph '0029! – paragraph '0113! examples 15,20 ----- US 2003/162835 A1 (STANIFORTH JOHN NICHOLAS ET AL) 28 August 2003 (2003-08-28) claims 1,25 paragraphs '0005!, '0009! paragraph '0035! – paragraph '0049! paragraph '0079! ----- -/-	1-5,11, 14-16, 18,19
X		1-5,11, 14-16, 18-20

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

28 January 2005

Date of mailing of the international search report

27.04.2005

Name and mailing address of the ISA

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Schifferer, H

INTERNATIONAL SEARCH REPORTInternational Application No
PCT/GB2004/004492**C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 641 510 A (CLARK ET AL) 24 June 1997 (1997-06-24) claims 1,2 column 3, line 48 – column 6, line 42 table 2 ----- X WO 03/024396 A2 (GLAXO GROUP LIMITED; BROWN, ANDREW, BRUCE; VAN OORT, MICHAEL, MARY) 27 March 2003 (2003-03-27) claims 1,2 page 5, line 19 – line 30 page 12, line 13 – page 15, line 19 -----	1-5,11, 14-16, 18-20
3		

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

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International application No.
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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claim 18 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-19, 20 in part

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-19, 20 in part

Dry powder pharmaceutical composition for inhalation therapy comprising calcium stearate.

2. claims: 20 in part, 21-33

Inhalation device/medicament pack

FURTHER INFORMATION CONTINUED FROM PCT/ISA/

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Continuation of Box 3.

Although claim 18 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/004492

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 2003185764	A1	02-10-2003		AU 4858101 A		30-10-2001
				AU 4859501 A		30-10-2001
				AU 5834301 A		30-10-2001
				BR 0110139 A		31-12-2002
				BR 0110141 A		28-01-2003
				BR 0110301 A		30-12-2003
				CA 2405767 A1		25-10-2001
				CA 2406119 A1		25-10-2001
				CA 2406201 A1		25-10-2001
				CN 1424909 A		18-06-2003
				CZ 20023437 A3		12-02-2003
				EE 200200593 A		15-04-2004
				WO 0178693 A2		25-10-2001
				EP 1276472 A2		22-01-2003
				EP 1276473 A2		22-01-2003
				EP 1274406 A2		15-01-2003
				WO 0178694 A2		25-10-2001
				WO 0178695 A2		25-10-2001
				GB 2363987 A		16-01-2002
				GB 2363988 A		16-01-2002
				HU 0300490 A2		28-07-2003
				HU 0300499 A2		28-07-2003
				HU 0300593 A2		29-09-2003
				JP 2003530425 T		14-10-2003
				NO 20024971 A		17-12-2002
				NO 20024973 A		16-12-2002
				NO 20024980 A		17-12-2002
				NZ 521887 A		25-06-2004
				PL 358640 A1		09-08-2004
				PL 358875 A1		23-08-2004
				PL 359289 A1		23-08-2004
				SK 14912002 A3		04-03-2003
				US 2003175214 A1		18-09-2003
<hr/>						
US 2003162835	A1	28-08-2003		AU 4858101 A		30-10-2001
				AU 4859501 A		30-10-2001
				AU 4860101 A		30-10-2001
				AU 5834301 A		30-10-2001
				AU 6926101 A		08-01-2002
				BR 0110139 A		31-12-2002
				BR 0110141 A		28-01-2003
				BR 0110301 A		30-12-2003
				CA 2405767 A1		25-10-2001
				CA 2406119 A1		25-10-2001
				CA 2406201 A1		25-10-2001
				CA 2406206 A1		25-10-2001
				CA 2413692 A1		03-01-2002
				CN 1424909 A		18-06-2003
				CN 1438875 A		27-08-2003
				CZ 20023437 A3		12-02-2003
				EE 200200593 A		15-04-2004
				WO 0178693 A2		25-10-2001
				EP 1276472 A2		22-01-2003
				EP 1276473 A2		22-01-2003
				EP 1276474 A2		22-01-2003
				EP 1274406 A2		15-01-2003
				EP 1296651 A1		02-04-2003
				WO 0178694 A2		25-10-2001

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/GB2004/004492

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 2003162835	A1	WO	0178695 A2	25-10-2001
		WO	0178696 A2	25-10-2001
		WO	0200197 A1	03-01-2002
		GB	2363987 A	16-01-2002
		GB	2363988 A	16-01-2002
		HU	0300490 A2	28-07-2003
		HU	0300499 A2	28-07-2003
		HU	0300593 A2	29-09-2003
		JP	2003530425 T	14-10-2003
		JP	2004500424 T	08-01-2004
		JP	2004501183 T	15-01-2004
		NO	20024971 A	17-12-2002
		NO	20024973 A	16-12-2002
		NO	20024980 A	17-12-2002
		NZ	521887 A	25-06-2004
		NZ	521972 A	25-06-2004
		PL	358640 A1	09-08-2004
		PL	358875 A1	23-08-2004
		PL	359289 A1	23-08-2004
		SK	14912002 A3	04-03-2003
		US	2003180227 A1	25-09-2003
		US	2003175214 A1	18-09-2003
		ZA	200208066 A	05-08-2003
US 5641510	A	24-06-1997	CA EP JP WO	2191709 A1 0768873 A1 10502283 T 9601105 A1
WO 03024396	A2	27-03-2003	EP US	1487417 A2 2004241232 A1
				22-12-2004 02-12-2004